Deep Tech Forum 2024 NYC Climate Week

基調講演と パネルディスカッションの資料

SOSV

HAX

Can Hard Tech Drive Net-Zero?

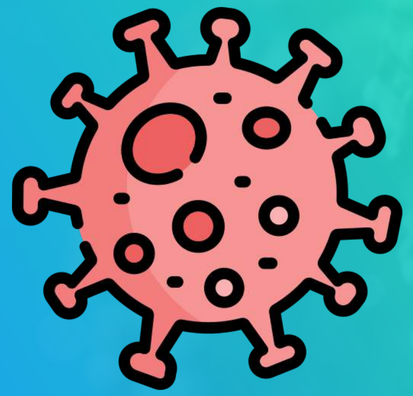
Innovating for Globally Secure Supply Chains

Susan Schofer
SOSV Partner & HAX Chief Science Officer

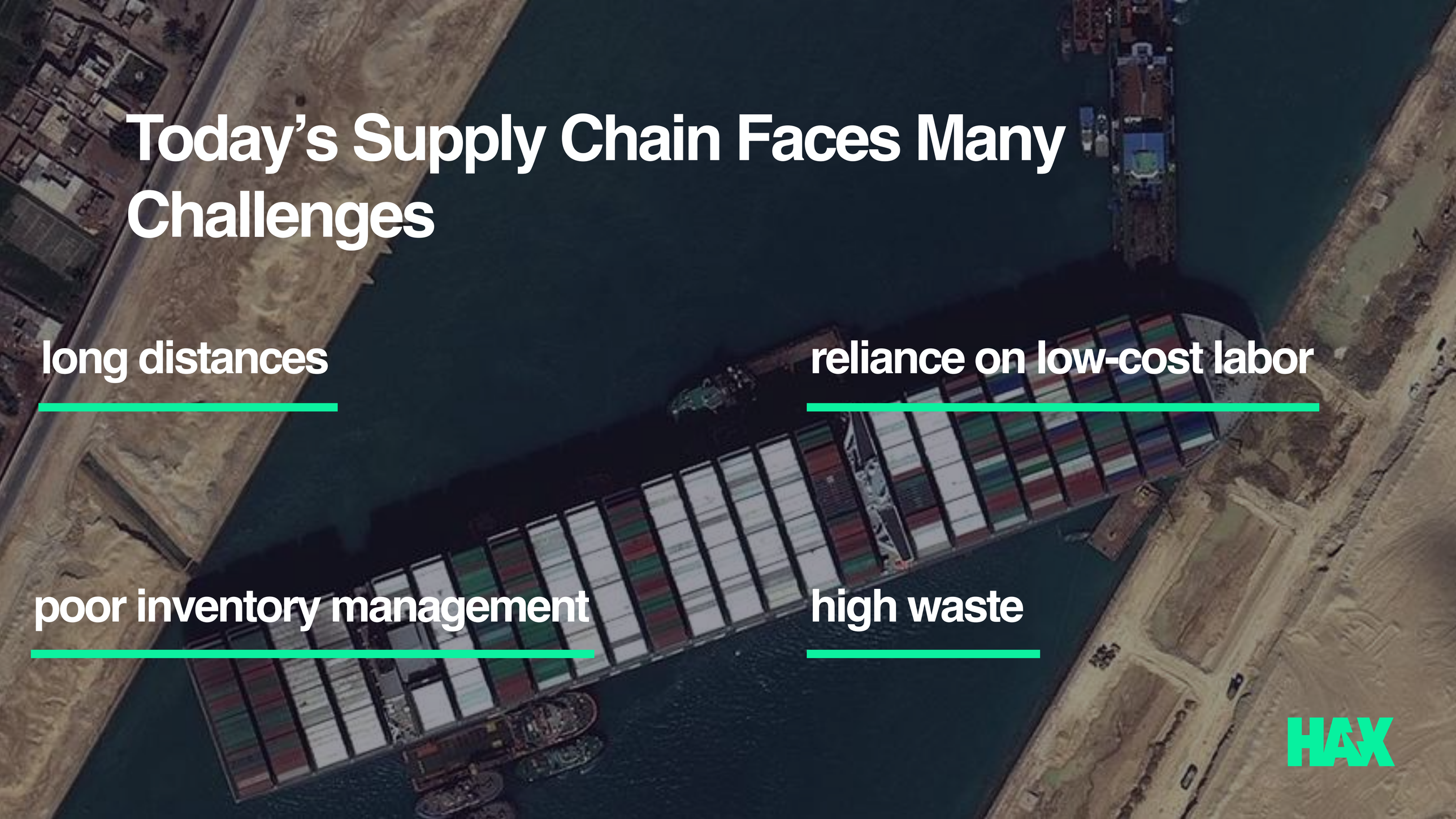
We are at a time like no other

Supply Chain Challenges

Disruptions like Covid-19



Geopolitical tensions



Today's Supply Chain Faces Many Challenges

long distances

reliance on low-cost labor

poor inventory management

high waste

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Nearshoring is imperative for secure supply chains

Challenges to on-shore production

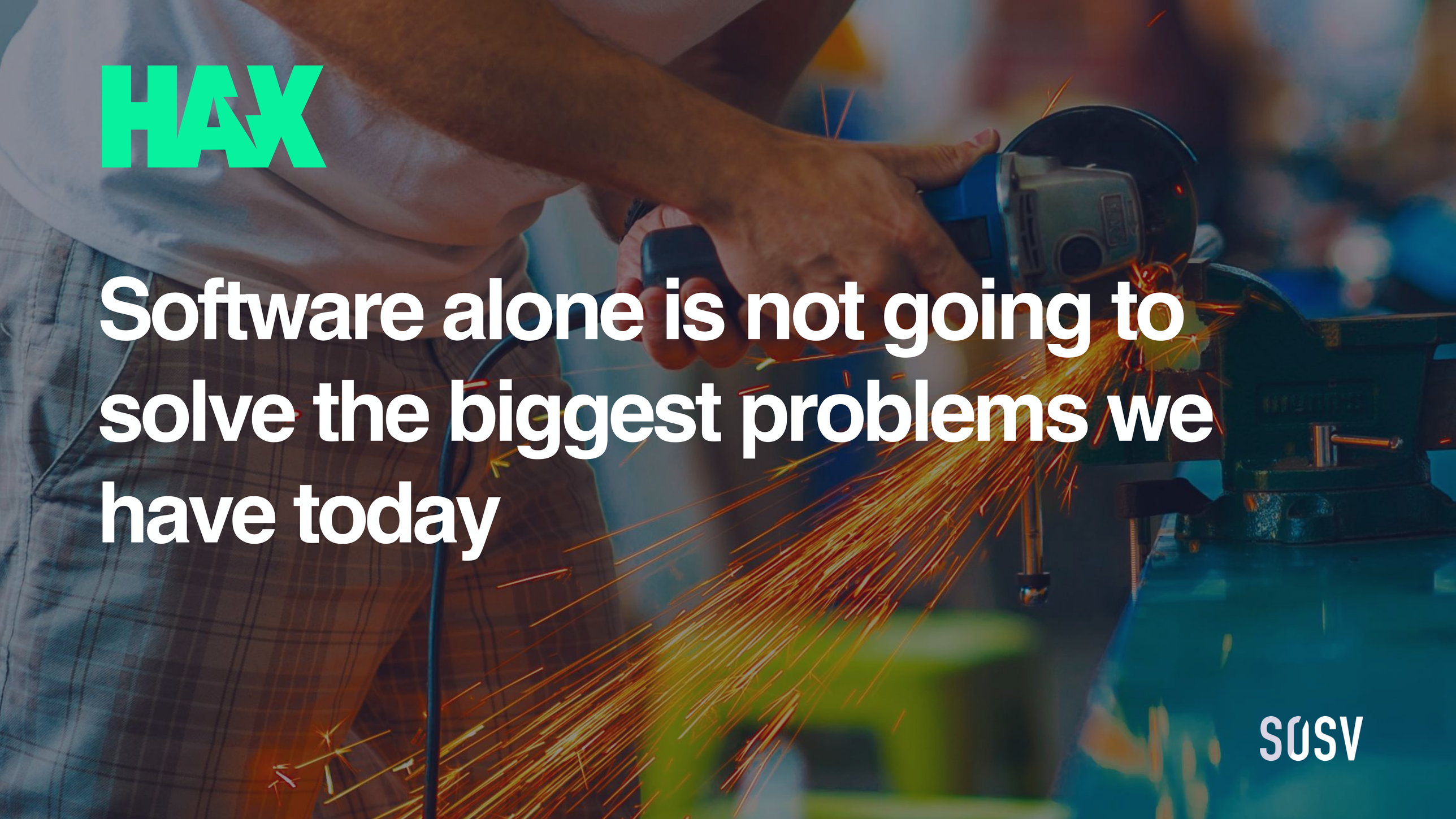
aging workforce

lack of skilled labor

high dependence on imports

limited manufacturing infrastructure

aggressive net-zero targets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Software alone is not going to solve the biggest problems we have today
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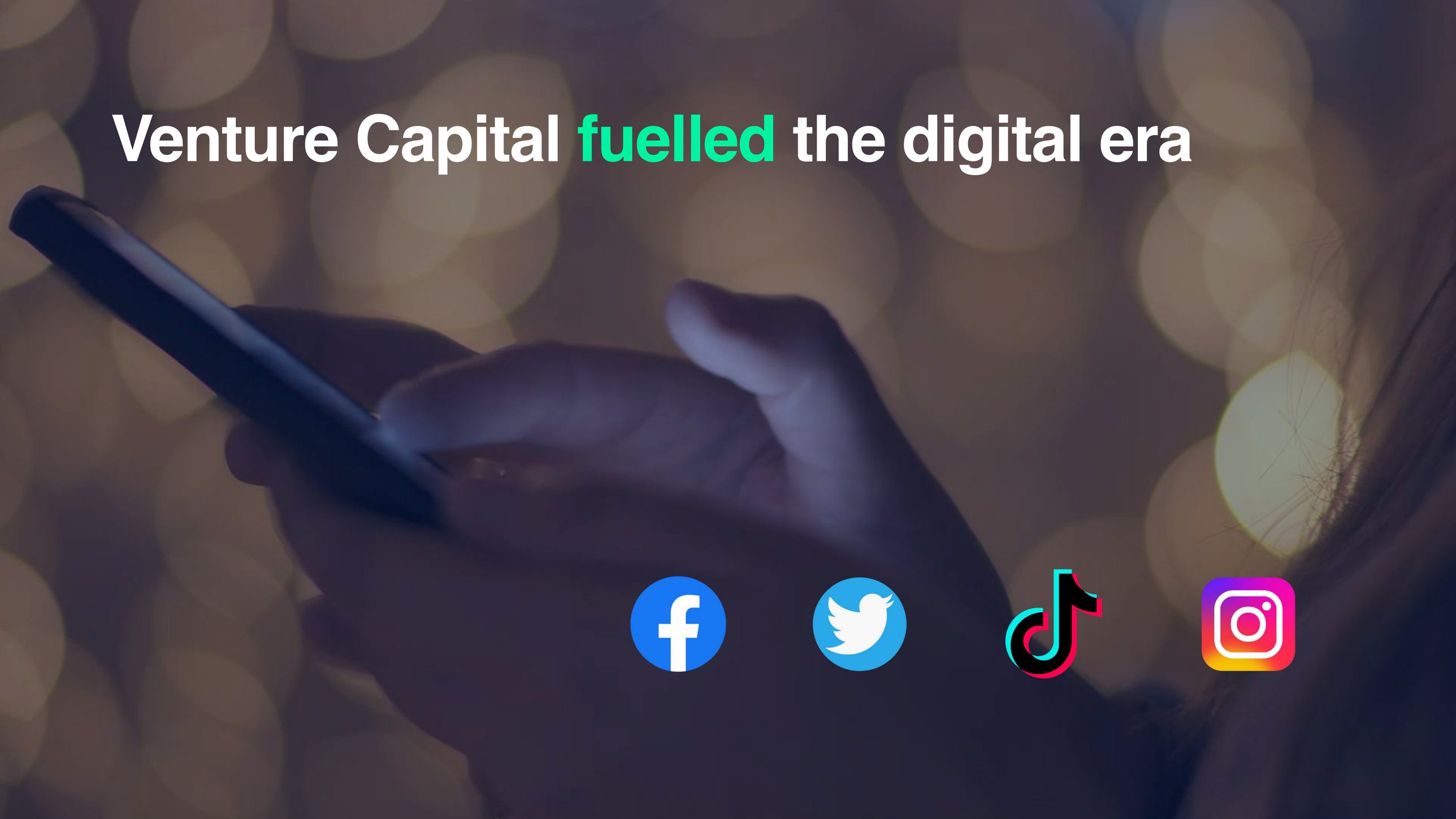
HAX
We need to invest in physical sciences
SOSV


HAX
hands on
venture capital
for hard tech
Newark - Pune - Shenzhen - Tokyo
SOSV

Venture Capital fuelled the digital era




Venture Capital now needs
to feed a new era

Hard Tech to address supply chain security

Energy Independence

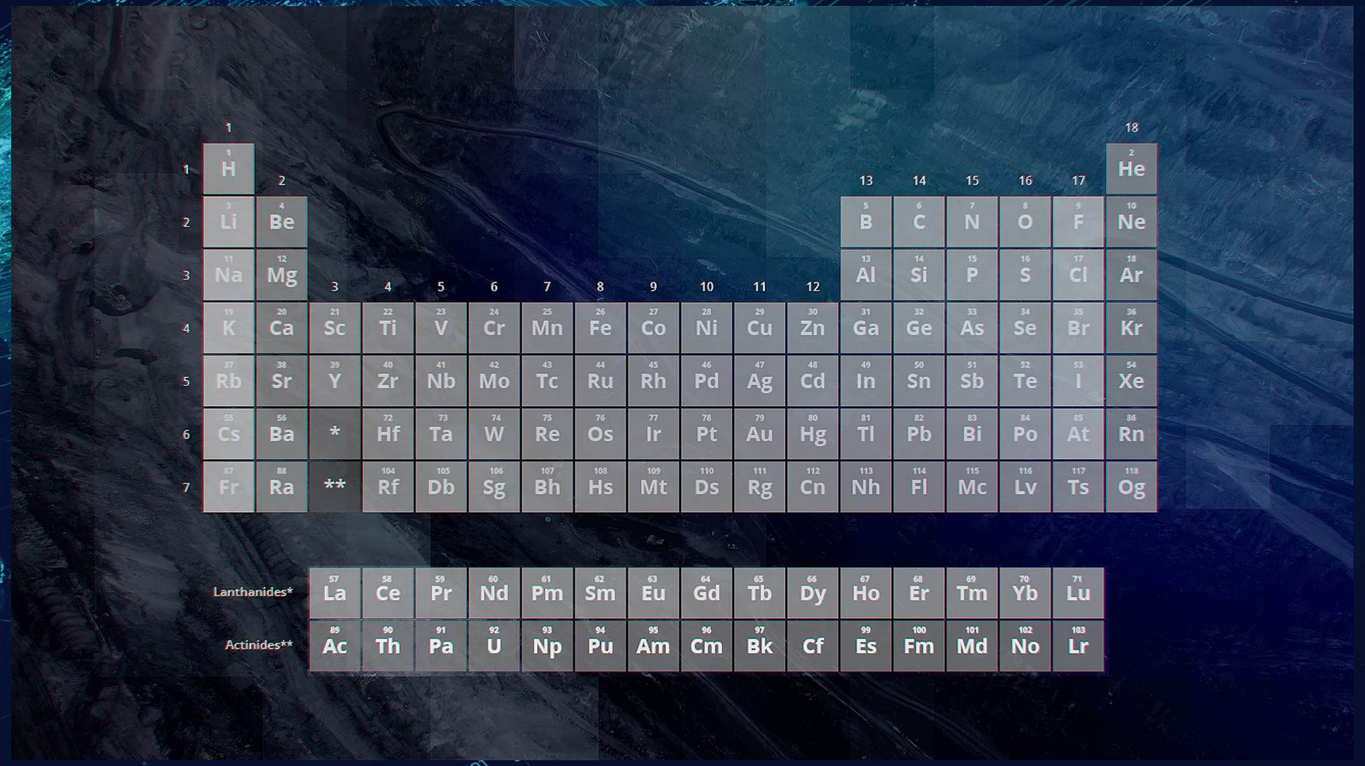
Robotics in Manufacturing

Supply Chain Technologies

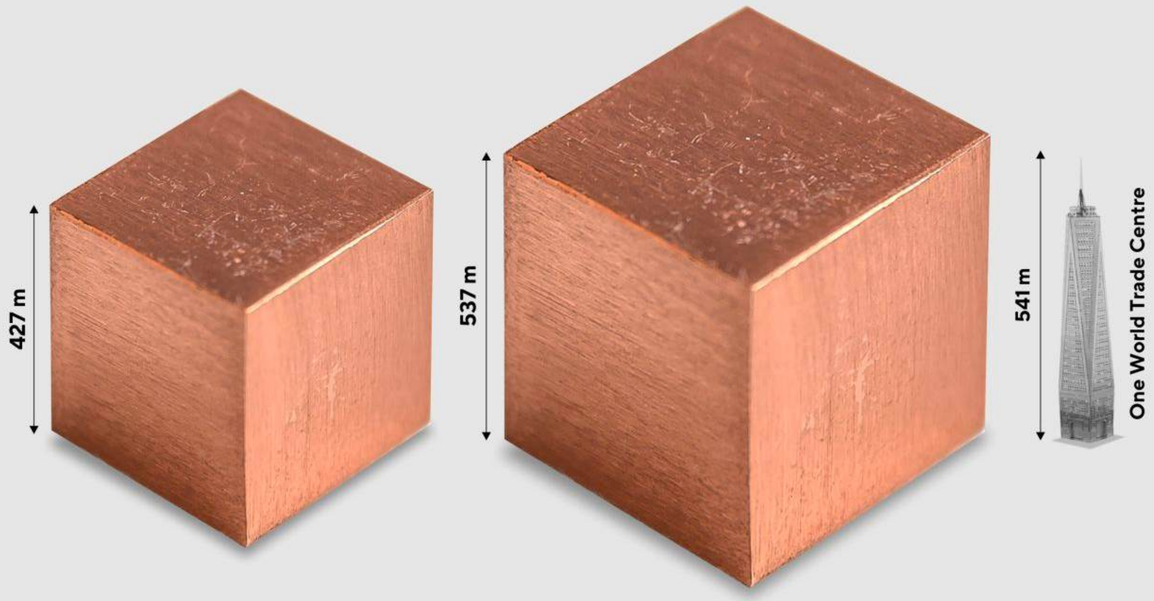
Energy independence

The energy transition is happening

the next question is how that happens with the borders of the US and allies. Energy security is critical



We need a lot of elements.



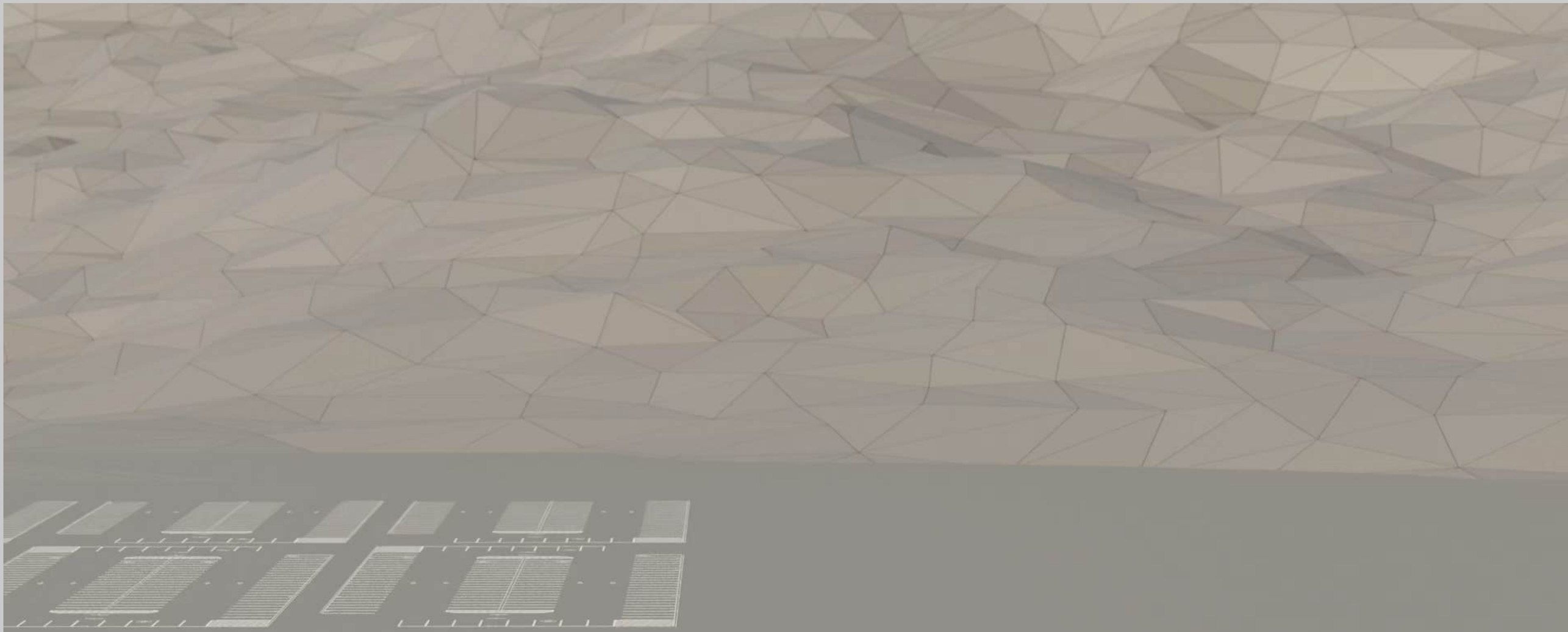
700 million tonnes
Total copper produced over the course of human history

1.4 billion tonnes
New copper needed to reach net zero by 2050

Reliable sources

Responsible sources

From Black Mass to Cathode



From Battery Waste to Cathode

Energy Independence

New approaches to avoid reliance on Critical Minerals

Hydrogen
New battery chemistries
Mechanical energy storage

AVRTON

ENERGY

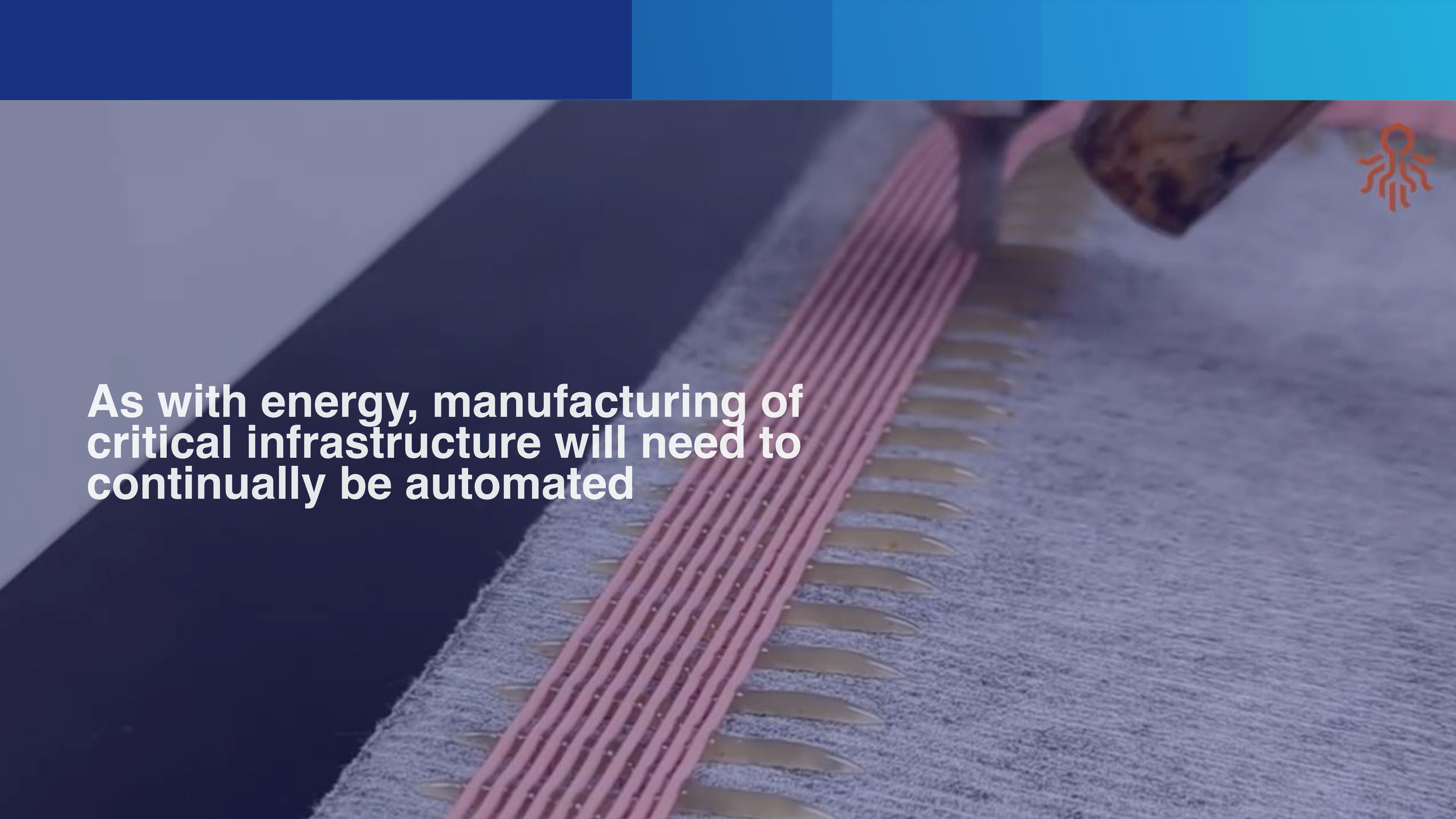

PROJECT K

Qnetic

SOLVING THE **ENERGY STORAGE** PROBLEM

Robotics and AI in Manufacturing

Address labor and manufacturing challenges


As with energy, manufacturing of critical infrastructure will need to continually be automated

Robotics

Supply chain

Just In Time manufacturing


unspun
unspun

Supply Chain Technologies

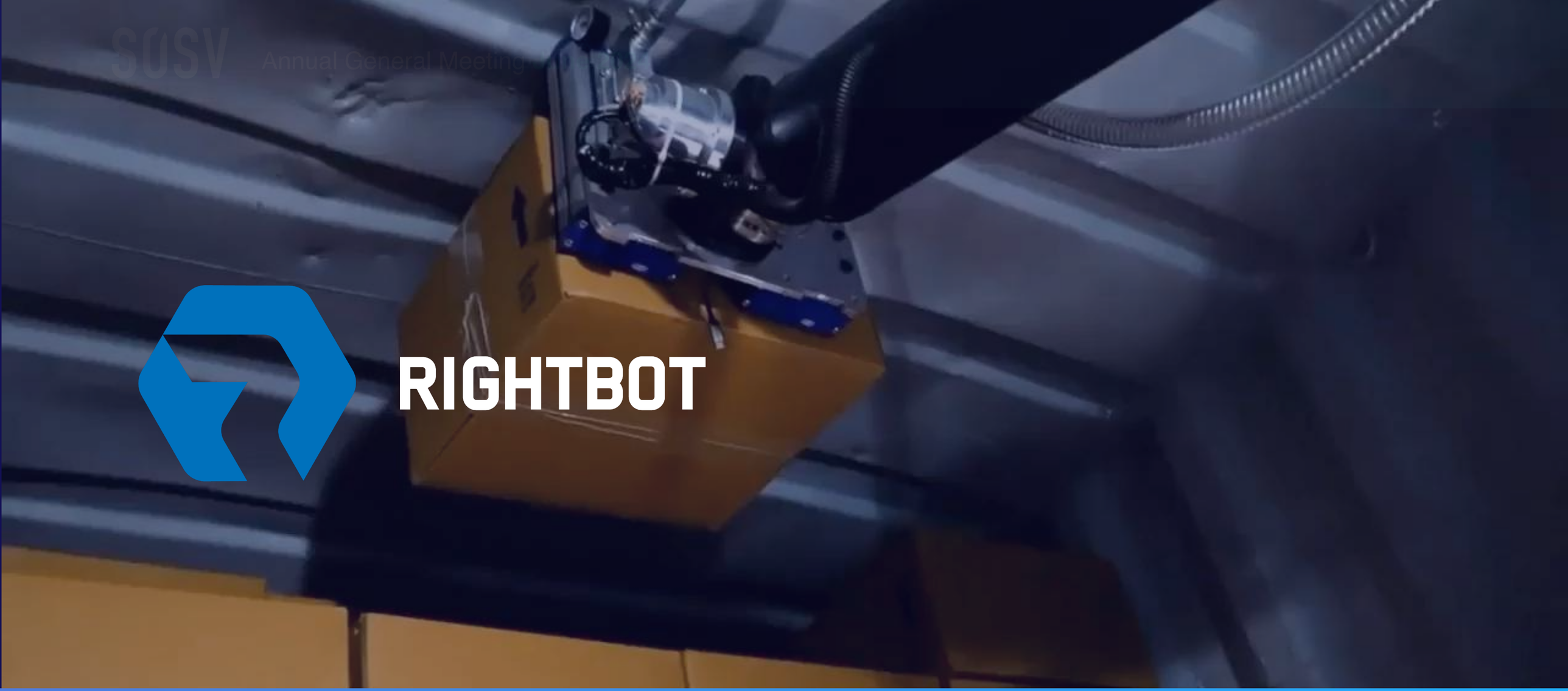
Supply Chain companies are seeing continued positive traction

Transport | Energy | Supply chains

ARTYC

Energy

Supply chains



RIGHTBOT

Supply chains

UNBOX
ROBOTICS

Supply chains

SMARTEX.AI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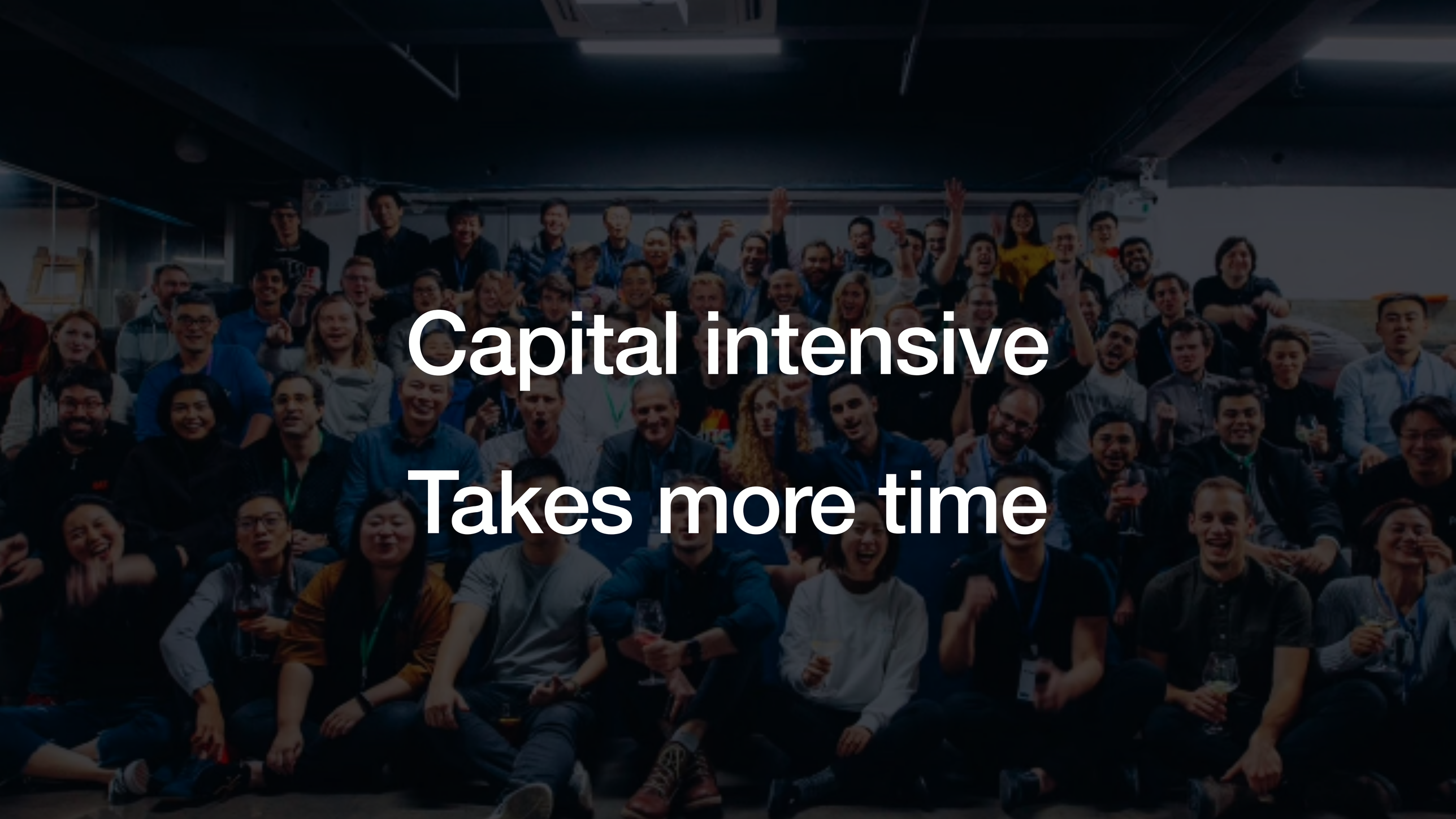
We started in 2011


And it was really hard!


Capital intensive
Takes more time

What we do

scientists to founders
and
research to reality

How we do it

First check into Hard Tech
and
Deep technical help
Chemistry
Engineering
Design
Business

Bringing founders to build hard tech using a global ecosystem

newark

industrial R&D, corporates, fundraising, talent

shenzhen

electronics, rapid fabrication, mass manufacturing

pune

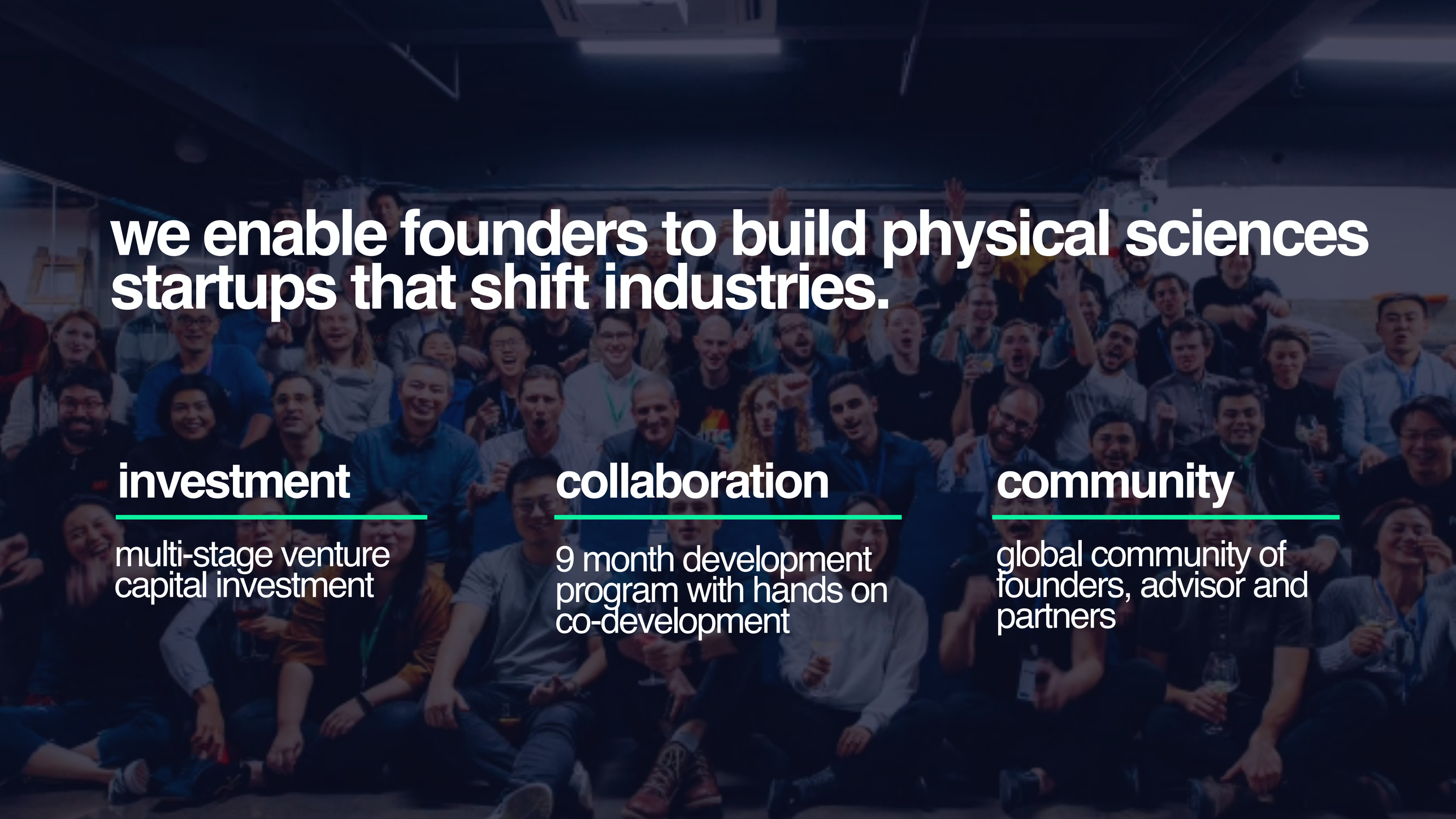
heavy industries, robotics, engineering

tokyo

multi-national corporates, tech R&D

HAX

reduce time between iterations
1 week equals 1 month



we enable founders to build physical sciences startups that shift industries.

investment

multi-stage venture capital investment

collaboration

9 month development program with hands on co-development

community

global community of founders, advisor and partners

99% of a more sustainable future will be the re-invention of things we already know

- Plastic • Water • Ice Cream
- Leather • Eggs • Cement
- Transportation • Batteries
- The nylon in yoga pants
- Shrimp farms • Grease
- Marine diesel • Meat
- Magnets • Food oil • Wood
- Collagen • Trash picking
- Green H2 • Mineral extraction
- Fertilizer • Dirt • Cow Poop


Thank you

Efficiency within supply chains is particularly apparent in textile and apparel industry

10%

global emissions

- Water
- Pollution
- Transport
- Waste